

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claim 1 (Canceled)

2. (Currently Amended) A switched capacitor filter having an anti-aliasing function, comprising:

integration circuits of multiple stages, each having an amplifier and a switched capacitor, and wherein

the integration circuit of at least a first stage of the integration circuits of multiple stages has a resistor, and

a bipolar transistor is provided in an input stage of the amplifier in at least one the first stage of the integration circuits ~~having the resistor of multiple stages,~~

no bipolar transistor is provided in the input stage of the amplifier of any integration circuit, of the integration circuits of multiple stages, that does not have a resistor, and

any amplifier that does not have the bipolar transistor provided in the input stage is provided with a metal-oxide-semiconductor field-effect-transistor (MOSFET) instead.

3. (Currently Amended) A switched capacitor filter having an anti-aliasing function, comprising:

integration circuits of multiple-stages, each having an amplifier and a switched capacitor,
and wherein

an integration circuit of at least a first stage of the integration circuits of multiple stages
has a resistor,

the integration circuits each has a distributed gain so as to maintain a filtering function in
each of the multiple-stages of integration circuits, and

a bipolar transistor is provided in an input stage of an amplifier in the first stage of the
integration circuits of multiple stages, as well as in the input stage of the amplifier in other stages
which shows show a strong 1/f noise reduction effect includes a bipolar transistor by using the
bipolar transistor, and

any amplifier that does not have the bipolar transistor provided in the input stage is
provided with a metal-oxide-semiconductor field-effect-transistor (MOSFET) instead.

4. (Previously Presented) The switched capacitor as set forth in Claim 2, wherein:

the resistor is connected to the input stage of the amplifier, and

the amplifier whose input stage includes the bipolar transistor has an input impedance
that is greater than a resistance of the resistor.

5. (Previously Presented) The switched capacitor as set forth in Claim 3, wherein:

the amplifier whose input stage include the bipolar transistor has an input impedance that
is greater than a resistance of the resistor which is connected to the input stage of the amplifier.

Claim 6 (Canceled)

7. (Original) The switched capacitor filter as set forth in Claim 2, wherein:
the switched capacitor filter is provided on a single substrate.

8. (Original) The switched capacitor filter as set forth in Claim 3, wherein:
the switched capacitor filter is provided on a single substrate.

Claim 9 (Canceled)

10. (Previously Presented) A digital wireless receiver, comprising:
the switched capacitor filter of Claim 2 is used for (i) intermediate frequency band section of a digital wireless receiver which uses a low IF system, or (ii) an analog baseband section of a digital wireless communication receiver which uses no intermediate frequency.

11. (Previously Presented) A digital wireless receiver, comprising:
the switched capacitor filter of Claim 3 is used for (i) intermediate frequency band section of a digital wireless receiver which uses a low IF system, or (ii) an analog baseband section of a digital wireless communication receiver which uses no intermediate frequency.